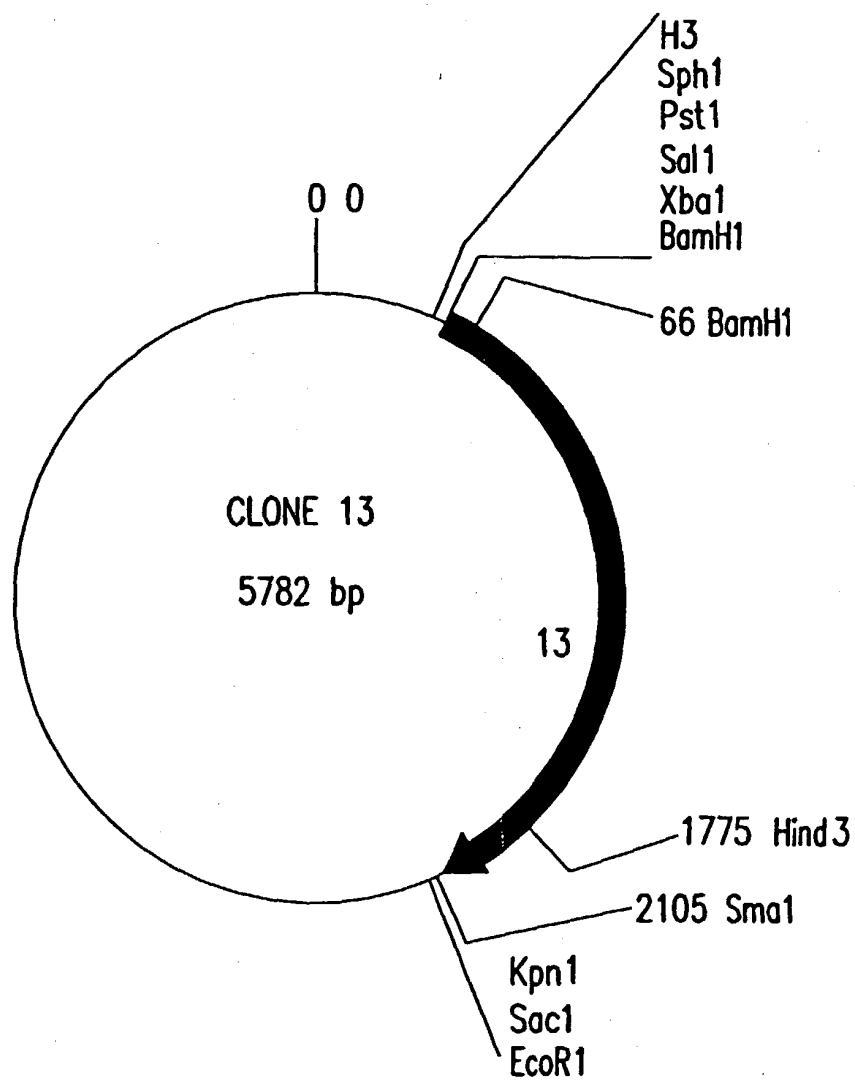


COMMENTS/REFERENCES: 52=3' SIDE OF S5 (AIMSH3) 1244bp IN pUC18/Sma1

FIG.2



COMMENTS/REFERENCES: 13=3' SIDE OF S5 (AtMSH3) 2104bp IN pUC18/Sma1

FIG.3

1225	CAT	ACA	ATT	ATG	AAC	ATG	CCA	CAT	CTG	ACT	GTT	CAA	GCC	CTC	GCC	CTA	ACG	TTT	TGC	CAT	1284
376	H	T	I	M	N	M	P	H	L	T	V	Q	A	L	A	L	T	F	C	H	395
1285	CTC	AAA	CAG	TTT	GGA	TTT	GAA	AGG	ATC	CTT	TAC	CAA	GGG	GCC	TCA	TTT	CGC	TCT	TTG	TCA	1344
396	L	K	Q	F	G	F	E	R	I	L	Y	Q	G	A	S	F	R	S	L	S	415
1245	AGT	AAC	ACA	GAG	ATG	ACT	CTC	TCA	GCC	AAT	ACT	CTG	CAA	CAG	TTG	GAG	GTT	GTG	AAA	AAT	1404
416	S	N	T	E	M	T	L	S	A	N	T	L	Q	Q	L	E	V	V	K	N	435
1405	AAT	TCA	GAT	GGA	TCG	GAA	TCT	GGC	TCC	TTA	TTC	CAT	AAT	ATG	AAT	CAC	ACA	CTT	ACA	GTA	1464
436	N	S	D	G	S	E	S	G	S	L	F	H	N	M	N	H	T	L	T	V	455
1465	TAT	GCT	TCC	AGG	CTT	CIT	AGA	CAC	TGG	GTG	ACT	CAT	CCT	CTA	TGC	GAT	AGA	AAT	TTG	ATA	1524
456	Y	A	S	R	L	L	R	H	W	V	T	H	P	L	C	D	R	N	L	I	475
1525	TCT	GCT	CGG	CTT	GAT	GCT	GTT	TCT	GAG	ATT	TCT	GCT	TGC	ATG	GGA	TCT	CAT	AGT	TCT	TCC	1584
476	S	A	R	L	D	A	V	S	E	I	S	A	C	M	G	S	H	S	S	S	495
1585	CAG	CTC	AGC	AGT	GAG	TTG	GTT	GAA	GAA	GGT	TCT	GAG	AGA	GCA	ATT	GTA	TCA	CCT	GAG	TTT	1644
496	Q	L	S	S	E	L	V	E	E	G	S	E	R	A	I	V	S	P	E	F	515
1645	TAT	CTC	GTG	CTC	TCC	TCA	GTC	TTG	ACA	GCT	ATG	TCT	AGA	TCA	TCT	GAT	ATT	CAA	CGT	GGA	1704
516	Y	L	V	L	S	S	V	L	T	A	M	S	R	S	S	D	I	Q	R	G	535
1705	ATA	ACA	AGA	ATC	TTT	CAT	CGG	ACT	GCT	AAA	GCC	ACA	GAG	TTC	ATT	GCA	GTT	ATG	GAA	GCT	1764
536	I	T	R	I	F	H	R	T	A	K	A	T	E	F	I	A	V	M	E	A	555
1765	ATT	TTA	CTT	GCG	GGG	AAG	CAA	ATT	CAG	CGG	CTT	GGC	ATA	AAG	CAA	GAC	TCT	GAA	ATG	AGG	1824
556	I	L	L	A	G	K	Q	I	Q	R	L	G	I	K	Q	D	S	E	M	R	575

FIG.4C

1825	AGT	ATG	CAA	TCT	GCA	ACT	GTG	CGA	TCT	ACT	CTT	TTG	AGA	AAA	TTG	ATT	TCT	GTT	ATT	TCA	1884
576	S	M	Q	S	A	T	V	R	S	T	L	L	R	K	L	I	S	V	I	S	595
1885	TCC	CCT	GTT	GTG	GTT	GAC	AAT	GCC	GGA	AAA	CTT	CTC	TCT	GCC	CTA	AAT	AAG	GAA	GCG	GCT	1944
596	S	P	V	V	V	D	N	A	G	K	L	L	S	A	L	N	K	E	A	A	615
1945	GTT	CGA	GGT	GAC	TTG	CTC	GAC	ATA	CTA	ATC	ACT	TCC	AGC	GAC	CAA	TTT	CCT	GAG	CTT	GCT	2004
616	V	R	G	D	L	L	D	I	L	I	T	S	S	D	Q	F	P	E	L	A	635
2005	GAA	GCT	CGC	CAA	GCA	GTT	TTA	GTC	ATC	AGG	GAA	AAG	CTG	GAT	TCC	TCG	ATA	GCT	TCA	TTT	2064
636	E	A	R	Q	A	V	L	V	I	R	E	K	L	D	S	S	I	A	S	F	655
2065	CGC	AAG	AAG	CTC	GCT	ATT	CGA	AAT	TTG	GAA	TTT	CTT	CAA	GTG	TCG	GGG	ATC	ACA	CAT	TTG	2124
656	R	K	K	L	A	I	R	N	L	E	F	L	Q	V	S	G	I	T	H	L	675
2125	ATA	GAG	CTG	CCC	GTT	GAT	TCC	AAG	GTC	CCT	ATG	AAT	TGG	GTG	AAA	GTA	AAT	AGC	ACC	AAG	2184
676	I	E	L	P	V	D	S	K	V	P	M	N	W	V	K	V	N	S	T	K	695
2185	AAG	ACT	ATT	CGA	TAT	CAT	CCC	CCA	GAA	ATA	GTA	GCT	GGC	TTG	GAT	GAG	CTA	GCT	CTA	GCA	2244
696	K	T	I	R	Y	H	P	P	E	I	V	A	G	L	D	E	L	A	L	A	715
2245	ACT	GAA	CAT	CTT	GCC	ATT	GTG	AAC	CGA	GCT	TCG	TGG	GAT	AGT	TTC	CTC	AAG	AGT	TTC	AGT	2304
716	T	E	H	L	A	I	V	N	R	A	S	W	D	S	F	L	K	S	F	S	735
2305	AGA	TAC	TAC	ACA	GAT	TTT	AAG	GCT	GCC	GTT	CAA	GCT	CTT	GCT	GCA	CTG	GAC	TGT	TTG	CAC	2364
736	R	Y	Y	T	D	F	K	A	A	V	Q	A	L	A	A	L	D	C	L	H	755
2365	TCC	CTT	TCA	ACT	CTA	TCT	AGA	AAC	AAG	AAC	TAT	GTC	CGT	CCC	GAG	TTT	GTG	GAT	GAC	TGT	2424
756	S	L	S	T	L	S	R	N	K	N	Y	V	R	P	E	F	V	D	D	C	775

FIG.4D

2425	GAA CCA GTT GAG ATA AAC ATA CAG TCT GGT CGT CAT CCT GTA CTG GAG ACT ATA TTA CAA	2484
776	E P V E I N I Q S G R H P V L E T I L Q	795
2485	GAT AAC TTC GTC CCA AAT GAC ACA ATT TTG CAT GCA GAA GGG GAA TAT TGC CAA ATT ATC	2544
796	D N F V P N D T I L H A E G E Y C Q I I	815
2545	ACC GGA CCT AAC ATG GGA GGA AAG AGC TGC TAT ATC CGT CAA GTT GCT TTA ATT TCC ATA	2604
816	T G P N M G G K S C Y I R Q V A L I S I	835
2605	ATG GCT CAG GTT GGT TCC TTT GTA CCA GCG TCA TTC GCC AAG CTG CAC GTG CTT GAT GGT	2664
836	M A Q V G S F V P A S F A K L H V L D G	855
2665	GTT TTC ACT CGG ATG GGT GCT TCA GAC AGT ATC CAG CAT GGC AGA AGT ACC TTT CTA GAA	2724
856	V F T R M G A S D S I Q H G R S T F L E	875
2725	GAA TTA AGT GAA GCG TCA CAC ATA ATC AGA ACC TGT TCT TCT CGT TCG CTT GTT ATA TTA	2784
876	E L S E A S H I I R T C S S R S L V I L	985
2785	GAT GAG CTT GGA AGA GGC ACT AGC ACA CAC GGT GTA GCC ATT GCC TAT GCA ACA TTA	2844
896	D E L G R G T S T H D G V A I A Y A T L	915
2845	CAG CAT CTC CTA GCA GAA AAG AGA TGT TTG GTT CTT TTT GTC ACG CAT TAC CCT GAA ATA	2904
916	Q H L L A E K R L V L F V T H Y P E I	935
2905	GCT GAG ATC AGT AAC GGA TTC CCA GGT TCT GTT GGG ACA TAC CAT GTC TCG TAT CTG ACA	2964
936	A E I S N G F P G S V G T Y H V S Y L T	955
2965	TTG CAG AAG GAT AAA GGC AGT TAT GAT CAT GAT GTG ACC TAC CTA TAT AAG CTT GTG	3024
956	L Q K D K G S Y D H D D V T Y L Y K L V	975

FIG.4E